

#3



Applicant or Patentee: Ramnath Sasisekharan, et al.  
Attorney's  
Docket No.: MIT5981/6124

Serial or Patent No.: 07/983,367

Filed or Issued: November 30, 1992

For: PURIFICATION, COMPOSITION AND  
SPECIFICITY OF HEPARINASE I, II, AND  
III FROM *FLAVOBACTERIUM HEPARINUM*

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

I hereby declare that I am an official empowered to act on  
behalf of the nonprofit organization identified below:

NAME OF ORGANIZATION: University of Iowa Research  
Foundation  
ADDRESS OF ORGANIZATION: 214 Technology Innovation Center  
Oakdale Campus  
Iowa City, Iowa 52242

TYPE OF ORGANIZATION

- ☐ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
- ☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE  
(26 USC 501(a) and 501(c)(3))
- ☒ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE  
OF STATE OF THE UNITED STATES OF AMERICA
- ☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE  
SERVICE CODE (26 USC 501(a) and 501(c)(3)) IF LOCATED  
IN THE UNITED STATES OF AMERICA
- ☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL  
UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA  
IF LOCATED IN THE UNITED STATES OF AMERICA

I hereby declare that the nonprofit organization identified  
above qualifies as a nonprofit organization as defined in 37 CFR  
1.9(e) for purposes of paying reduced fees under section 41(a)  
and (b) of Title 35, United States Code with regard to the  
invention entitled "Purification, Composition and Specificity of  
Heparinase I, II, and III From *Flavobacterium Heparinum*" by

"Purification, Composition and Specificity  
of Heparinase I, II, and III From  
*Flavobacterium Heparinum*"

Filed: November 30, 1992

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS

inventors Ramnath Sasisekharan, Daniel L. Lohse, Charles L.  
Cooney, Robert J. Linhardt and Robert S. Langer described in

☐ the specification filed herewith

☒ application serial no. 07/983,367, filed 11/30/92

☐ patent no. \_\_\_\_\_ issued \_\_\_\_\_

I hereby declare that rights under contract or law have been  
conveyed to and remain with the nonprofit organization with  
regard to the above-identified invention.

If the rights held by the nonprofit organization are not  
exclusive, each individual, concern or organization having rights  
to the invention is listed below\* and no rights to the invention  
are held by any person, other than the inventor, who could not  
qualify as a small business concern under 37 CFR 1.9(d) or by any  
concern which would not qualify as a small business concern under  
37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named  
person, concern or organization having rights to the invention  
averring to their status as small entities. (37 CFR 1.27)

NAME: Massachusetts Institute of Technology

ADDRESS: 77 Massachusetts Avenue, Cambridge, MA 02139

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORG.

"Purification, Composition and Specificity  
of Heparinase I, II, and III From  
*Flavobacterium Heparinum*"

Filed: November 30, 1992

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

☐ INDIVIDUAL    ☐ SMALL BUSINESS CONCERN    ☐ NONPROFIT ORG.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing

"Purification, Composition and Specificity  
of Heparinase I, II, and III From  
*Flavobacterium Heparinum*"

Filed: November 30, 1992

VERIFIED STATEMENT CLAIMING SMALL ENTITY STATUS

thereon, or any patent to which this verified statement is  
directed.

NAME OF PERSON SIGNING:

Bruce Wheaton

TITLE IN ORGANIZATION:

Interim Executive Director

ADDRESS OF PERSON SIGNING:

University of Iowa Research Foundation

214 Technology Innovation Center, Oakdale Campus

Iowa City, Iowa 52242

  
SIGNATURE

1/26/93

DATE



#9

Applicant or Patentee: Ramnath Sasisekharan, et al.

Attorney's

Serial or Patent No.: 07/983,367

Docket No.:

Filed or Issued: November 30, 1992

MIT 5981/6124

For:

PURIFICATION, COMPOSITION AND SPECIFICITY OF HEPARINASE  
I, II, AND III FROM FLAVOBACTERIUM HEPARINUM

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION**

I hereby declare that I am an official empowered to act on behalf of the  
nonprofit organization identified below:

NAME OF ORGANIZATION: Massachusetts Institute of Technology

ADDRESS OF ORGANIZATION: 77 Massachusetts Avenue  
Cambridge, Massachusetts 02139

TYPE OF ORGANIZATION:

- ☒ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION
- ☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE  
(26 USC 501(a) and 501(c)(3))
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OF STATE OF THE UNITED STATES OF AMERICA
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SERVICE CODE (26 USC 501(a) and 501(c)(3)) IF LOCATED  
IN THE UNITED STATES OF AMERICA
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UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA  
IF LOCATED IN THE UNITED STATES OF AMERICA

I hereby declare that the nonprofit organization identified above qualifies as a  
nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees  
under section 41(a) and (b) of Title 35, United States Code with regard to the invention  
entitled "Purification, Composition and Specificity of Heparinase I, II, and  
III from Flavobacterium Heparinum"

by inventor(s) Ramath, Saisisekharan, Daniel L. Lohse, Charles L. Cooney,  
Robert J. Linhardt and  
Robert S. Langer

described in

☐ the specification filed herewith

☒ application serial no. 07/983,367, filed 11/30/92

☐ patent no. \_\_\_\_\_ issued \_\_\_\_\_

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization with regard to the above-identified invention. If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities.  
(37 CFR 1.27)

NAME: University of Iowa Research Foundation

ADDRESS: 214 Technology Innovation Center, Oakdale Campus, Iowa City, Iowa 52242

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☒ NONPROFIT ORG.

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

☐ INDIVIDUAL ☐ SMALL BUSINESS CONCERN ☐ NONPROFIT ORG.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: John T. Preston  
TITLE IN ORGANIZATION: Director  
ADDRESS OF PERSON SIGNING: 77 Massachusetts Avenue, Room E32-300  
Cambridge, Massachusetts 02139

  
SIGNATURE

1/26/93

DATE



#3

DECLARATION FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: PURIFICATION, COMPOSITION AND SPECIFICITY OF HEPARINASE  
I, II AND III FROM FLAVOBACTERIUM HEPARINUM

the specification of which (check one)

\_\_\_\_\_ is attached hereto

☒ was filed on November 30, 1992  
as application Serial No. 07/983,367\_\_\_\_\_ and was amended on: \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority  
Claimed

_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	_____

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of the application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ Status (patented, pending, abandoned)



**"Purification, Composition and Specificity of Heparinase I, II and III from Flavobacterium Heparinum"**

By: **Ramnath Sasisekharan, et al.**

Filed: **November 30, 1992**

**DECLARATION**

As named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

John S. Pratt	<u>29,476</u>
James L. Ewing, IV	<u>30,630</u>
Patrea L. Pabst	<u>31,284</u>
Jamie L. Greene	<u>32,467</u>
Cheryl K. Zalesky	<u>33,052</u>
Dean W. Russell	<u>33,452</u>

Send Correspondence to:

Patrea L. Pabst, Esq.  
Kilpatrick & Cody  
1100 Peachtree Street, Suite 2800  
Atlanta, Georgia 30309-4530

Direct telephone calls to:

Patrea L. Pabst (404)815-6508, or  
John S. Pratt (404)815-6367

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor

Ramnath Sasisekharan

Inventor's signature

*Ramnath Sasisekharan*

Date

7th Jan 93

Residence 118 Ridge Street, Arlington, Massachusetts 02174

Citizenship India

MA

Post Office Address Same as above

Full name of second joint inventor (if any) Daniel L. Lohse

Inventor's signature

Date

Residence 4441 Old College Road, No. 5204, Bryan, Texas 77801

Citizenship United States

Post Office Address Same as above

"Purification, Composition and Specificity of Heparinase  
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Filed: November 30, 1992

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Send Correspondence to: Patrea L. Pabst, Esq.  
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John S. Pratt (404)815-6367

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Full name of sole or first inventor Ramnath Sasisekharan

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 118 Ridge Street, Arlington, Massachusetts 02174

Citizenship India

Post Office Address Same as above

Full name of second joint inventor (if any) Daniel L. Lohse

Inventor's signature Daniel L. Lohse Date 1/22/93

Residence 4441 Old College Road, No. 5204, Bryan, Texas 77801

Citizenship United States

Post Office Address Same as above

"Purification, Composition and Specificity of Heparinase  
I, II and III from Flavobacterium heparinum"

By: Ramnath Sasisekharan, et al.

Filed: November 30, 1992

DECLARATION

3-00

Full name of third joint inventor (if any) Charles L. Cooney

Inventor's signature [Signature]

Date 1/11/93

Residence 35 Chestnut Place, Brookline, Massachusetts 02146

Citizenship United States

MA

Post Office Address Same as above

Full name of fourth joint inventor (if any) Robert J. Linhardt

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence 1422 Plum Street, Iowa City, Iowa 52240

Citizenship United States

Post Office Address Same as above

5-00

Full name of fifth joint inventor (if any) Robert S. Langer

Inventor's signature [Signature]

Date 1/7/93

Residence 77 Lombard Street, Newton, Massachusetts 02158

Citizenship United States

MA

Post Office Address Same as above

Full name of sixth joint inventor (if any) \_\_\_\_\_

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence \_\_\_\_\_

Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_

"Purification, Composition and Specificity of Heparinase  
I, II and III from *Flavobacterium heparinum*"

By: Ramnath Sasisekharan, et al.

Filed: November 30, 1992

DECLARATION

Full name of third joint inventor (if any) Charles L. Cooney

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 35 Chestnut Place, Brookline, Massachusetts 02146

Citizenship United States

Post Office Address Same as above

Full name of fourth joint inventor (if any) Robert J. Linhardt 4-00

Inventor's signature [Signature] Date 1/4/93

Residence 1422 Plum Street, Iowa City, Iowa 52240

Citizenship United States IA

Post Office Address Same as above

Full name of fifth joint inventor (if any) Robert S. Langer

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence 77 Lombard Street, Newton, Massachusetts 02158

Citizenship United States

Post Office Address Same as above

Full name of sixth joint inventor (if any) \_\_\_\_\_

Inventor's signature \_\_\_\_\_ Date \_\_\_\_\_

Residence \_\_\_\_\_

Citizenship \_\_\_\_\_

Post Office Address \_\_\_\_\_